LEE COUNTY

(Lee County Water Service Area Map)

- Estimated 1999 population of 7,900--75% on public water
- Estimated 2020 population of 8,200--84% on public water
- 165 miles of water lines, with plans for 50 additional miles
- Estimated funding needs for public water 2000-2005--\$2,441,000
- Estimated funding needs for public water 2006-2020--\$9,250,000

Lee County had an estimated population of 7,935 (3,306 households) in 1999 with a projected population of 8,200 (3,600 households) in 2020. About 3/4 of the residents of Lee County are provided with public water. In areas of the county not served by public water, about 2/3 of the households rely on private domestic wells and 1/3 of the households rely on other sources. About 320 households will be added to public water service through new line extensions in 2000-2020.

The City of Beattyville operates the only treatment plant in the county and they also sell water to the Southside Water Association in the southern portion of the county. A large percentage of Lee Countians have access to potable water and getting water to everyone feasible by the year 2020 should not be a problem. Water source and plant capacity should be sufficient to reach this goal. Current water expansion plans will also tie this system in with the Jackson County system in the southwestern part of the county.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New		Rehab	Source	Treatment	Tanks/	Total
		Customers					Pumps	
	Miles	Number	Cost in \$1000	in \$1000				
LEE								
Beattyville	47.0	270	1,841				600	2,441
Total	47.0	270	1,841				600	2,441

WATER SERVICE AREAS LEE COUNTY Kentucky

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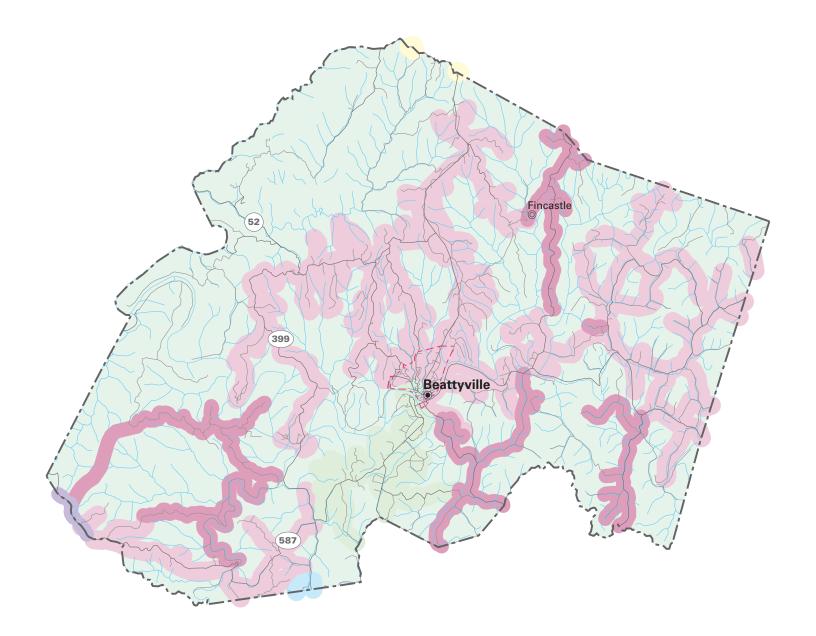




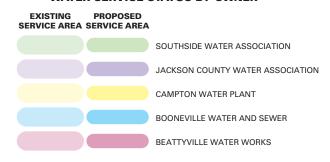




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WATER SERVICE STATUS BY OWNER



Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New		Rehab	Source	Treatment	Tanks/	Total
		Customers					Pumps	
	Miles	Number	Cost in \$1000	in \$1000				
LEE								-
Beattyville	4.7	50	250		7,000	2,000		9,250
Total	4.7	50	250		7,000	2,000		9,250

PUBLIC WATER SYSTEMS

Lee County is served by 4 public and semi-public water systems: 1 municipal system, Beattyville Water Plant; 1 water association, Southside Water Association; 1 private community system; and 1 non-community system.

BEATTYVILLE WATER WORKS

PWSID:	
System Type:	COMMUNITY
Owner Type:	MUNICIPAL
Surface Source:NOF	RTH FORK KENTUCKY RIVER
Purchase Source:	
Well Source:	
Sells Water to:SOUTH	
Treatment Plant Capacity (MGD):	
Percent Daily Average Production:	52.00
Total Tank Storage Capacity (gallons):	900,000.00
Total Service Connections:	
Number of Employees:	10.00
Treatment Operator Class:	2D
Distribution Operator Class:	
Customer Rate for 1,000 Gallons:	5.25
O/M costs 1997:	Not available
O/M costs per Service Connection:	Not available
Net Revenue 1997:	
Total Water Produced 1997 (gallons):	Not available
Water Sold 1997 (gallons):	
Unaccounted-for Water 1997 (%):	Not available

The Beattyville Water Plant gets its water from the North Fork of the Kentucky River. The system serves 1,730 households and also sells water to the Southside Water Association. In addition, Beattyville Water purchases 10,000 gpd from Jackson County. Plant capacity is 1 million gpd, with a daily average production of 600,000. Current storage capacity is 900,000 gallons. Rates are \$10.50 for the first 2000 gallons inside the city and \$14.00 outside. The System employs 10 full time people.

SOUTHSIDE WATER ASSOCIATION

The Southside Water Association purchases about 73,000 gpd from the Beattyville Water Plant and they serve 525 households. They have a storage capacity of 100,000 gallons. There are currently no plans for expansion.

OTHER SYSTEMS

FARMERS RIDGE WATER DISTRICT

Farmers Ridge Water District is located in Lee County. The system serves a population of 200 and has 60 service connections. The district purchases water from Jackson County Water Co.

CATHEDRAL DOMAINE CAMP

Cathedral Domaine Camp is located in Lee County. The system serves a population of 300 and has 1 service connection. The private, transient, non-community system has treatment capacity of 6,500 gallons per day. The water source is springs.

PRIVATE DOMESTIC SYSTEMS

Almost 2,000 people in Lee County rely on private domestic water supplies: 1,300 on wells and 700 on other sources.

Throughout most of Lee county wells drilled in valley bottoms are adequate for domestic use. Yields to wells become progressively less on hillsides and ridges. Some wells drilled on ridges produce enough water for domestic use. Generally wells on broad ridges produce more water than wells on narrow ridges or hilltops.

Most wells drilled in the valley bottoms are completed in limestone, produce hard water often with noticeable amounts of iron. On hillsides and ridges wells are often completed in sandstone, contain soft to moderately hard water with noticeable amounts of iron. Salty water may be found at depths greater than 100 feet below the level of the Kentucky River.

A few springs supply sufficient quantities of water for domestic use. Most springs yield less than 5gpm except limestone springs that occur near stream level often produce 100 gpm or greater.